

Listing of Claims

Claim 1 (currently amended): A non-charging resin composite material in which a component comprising a metal, metal alloy, metal compound, or mixtures thereof is present at a surface of a resin base, said non-charging resin composite material having a ratio of a surface resistance of said non-charging resin composite material to a resistivity of said component containing metal, metal alloy, metal compound, or mixtures thereof is of 10^{12} to 10^{17} ($1/\square \cdot \text{cm}$).

Claim 2 (currently amended): The non-charging resin composite material according to Claim 1, wherein the surface resistance of the non-charging resin composite material is 10^6 - 10^{11} Ω/\square .

Claim 3 (previously presented): The non-charging resin composite material according to Claim 1, wherein the component containing metal element is selected from the group consisting of metals, metal arsenides, metal antimonides, metal selenides, metal tellurides, metal sulfides and metal oxides.

Claim 4 (previously presented): The non-charging resin composite material according to any of Claims 1-3, wherein the metal element is a metal element selected from the group consisting of V, Cr, Mn, Fe, Co, Ni, Cu, Ga, As, Se, Mo, Ru, Rh, Pd, Ag, Cd, In, Sb, Te, Os, Ir, Pt, Au, Hg, Pb, Bi and mixtures thereof.

Claim 5 (previously presented): The non-charging resin composite material according to Claim 1, wherein the resin is a resin selected from the group consisting of epoxy resin, polyimide resin, vinyl resin, phenol resin, nylon resin, polyphenylene ether resin, polypropylene resin, fluorine-based resin, ABS resin and mixtures thereof.

Claim 6 (currently amended) A method for manufacturing a non-charging resin composite material, which comprises (1) treating a ~~process wherein~~ resin base with an ion exchange group introduction agent, (2) treating the resin base with a liquid containing metal ions, and (3) introducing a component containing metal element at the surface of the resin base by a conversion treatment, the non-charging resin component material has a ratio of the surface resistance of the non-charging resin composite material to the resistivity of the component containing metal, metal alloy, metal compound, or mixtures thereof of ~~10²~~ 10^{12} to 10^{17} ($1/\square \cdot \text{cm}$).

Claim 7 (canceled)

Claim 8 (currently amended): The method of claim 6 wherein the non-charging resin composite material has a surface resistance of 10^6 to 10^{11} Ω/\square .

Claim 9 (previously presented): The method of claim 6 wherein the resin base is selected from the group consisting of epoxy resin, polyimide resin, vinyl resin, phenol resin, nylon resin, polyphenylene ether resin, polypropylene resin, fluorine-based resin, ABS resin and mixtures thereof.

Claim 10 (previously presented) The method of claim 6 wherein the metal element is selected from the group consisting of V, Cr, Mn, Fe, Co, Ni, Cu, Ga, As, Se, Mo, Ru, Rh, Pd, Ag, Cd, In, Sb, Te, Os, Ir, Pt, Au, Hg, Pb, Bi and mixtures thereof.

Claim 11 (previously amended) The method of claim 6 wherein the component containing metal element is selected from the group consisting of metals, metal arsenides, metal antimonides, metal selenides, metal tellurides, metal sulfides and metal oxides.

Claim 12 (currently amended): The non-charging resin composite material of claim 1, wherein the metal, metal alloy, or metal compound contains copper in an amount of from $0.005 - 5$ g/m^2 .

Claim 13 (currently amended): The non-charging resin composite material of claim 12, wherein the copper is in an amount of from $0.01 - 0.3$ g/m^2 .